

## AGC/WSDOT Structures Team Meeting

May 9, 2003

9:00 AM –12:00 PM NWR Corson Avenue Facility

Attendees:	Company	Phone	E-mail
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The meeting started at 9:05 AM with Kevin and Van's brief remarks:

Kevin commented about the team's energy and performance subsequent to his last attendance. He said there would be new changes to the team. Ron Lewis has accepted a position with the Olympic Region to manage the construction of the Hood Canal Bridge. Mo will assume temporary chairmanship of the team. Karston Olson will step down as co-chair and Charlie McCoy will assume this responsibility. Van said Karsten had suggested that a change at this stage would be good for the team. There are also two new team members, Tobin Smith of Max. J. Kuney replacing Karston and Bob Hilmes of the Eastern Region replacing Ralph Robertson.

Charlie said Karston had served as the co-chair for 7 years with a lot of history and relationships. He said regular participation from the contractor's side would continue. New members will be rotated in and new ideas will be welcomed. John suggested that non-AGC contractors should participate and benefit at the table. Kevin said the slogan "It's Your Nickel, Watch it Work!" has been adopted by the WSDOT. Some of these nickel projects are: Salmon Ck, SR 500, US 395 Francis to Farwell, and Vantage truck climbing. The new revenue is assigned to specific projects.

The minutes from the March meeting were approved without any changes.

### **Updates on Action Items**

#### **Deck Overhang Bracket Release:**

Ron & Mo reported on the necessity to release and reset cantilevered deck overhang brackets before deck placement. Here is a summary of discussions:

- The Stand. Specs. 6-02.3(17)E, page 6-48 1<sup>st</sup> paragraph, stipulates that deck overhang supports are considered as falsework
- The Stand. Specs. 6-02.3(6), page 6-15 last paragraph, says no barrier shall be placed till falsework is released
- The Stand. Specs. 6-01.6, page 6-1, indicates that no live load shall be placed on bridges till falsework is released, unless the engineer approves

There do not seem to be any concerns if the brackets are not released and readjusted before barrier placement. However, the brackets are not designed for the concrete truck live load, when/if wheel line is placed on the deck overhang.

**Action Item:** Jugesh and Mo will investigate further

**Pumper Certification, Stand. Specs. 6-02.3(6):**

Barry thought this requirement might have been a recommendation by Dr. Ken Hover. John said most concrete pump companies, to reduce risk, use experienced employees. This requirement adds no value to quality.

**Action item:** Mo will investigate the history with Jerry Weigel and make a recommendation at the next meeting.

**Formula for Determination of Concrete Cost When Strength is Not Achieved Stand. Specs 6-02.3(L):**

The question as how the \$300/c.y. was established could not be determined. Barry added that the cost of concrete was not the sole concern. The most important issue is the effects on the durability of deck concrete when designed compressive strength is not fully achieved.

**Action Item:** Ron will make a recommendation for the next meeting

**Stand. Specs. 6-02.3(6)A Cold Weather Protection:**

The following issues were discussed:

- Concrete temperature shall not be allowed to fall below 35 F during curing period
- Curing time will be credited only for days that the concrete temperature remains above 50 F
- Maintaining humidity of 80% is an issue

**Action Item:** Mo will recommend revisions to this Spec.

**Stand. Specs. 6-02.4 Seal Measurement and Payment:**

There are contradictory statements concerning measurement of seal concrete (page 6-101).

**Action Item:** Charlie will make a recommendation for changes to this section of the Specs.

**New Stand. Specs Issues**

**Stand. Specs 6-02.3(10)** - Charlie asked for a wider limit than 10' for use of roller screed. This is an issue particularly for bridge widening with tight traffic control widths where a large length of the Bid-Well protrudes into the traffic lanes. Lacks of grade control with the roller screed and poor workmanship have been the main concerns of the State in the past. Tom mentioned that the designers should evaluate and set this limit during design.

**Action Item:** Charlie will propose a change to the Specs.

**Stand. Specs. 6-02.3(10)**- The need for tinning decks to prevent cars from hydroplaning and providing skid resistance vs. reduction in durability and increase in permeability were discussed. Michigan is using Astroturf finish on bridge decks. A pilot project for testing and further investigation is needed. There is currently a pilot project under contract (Argon to Sullivan) on PCCP in the Eastern Region.

**Action Item:** Jugesh will further research and possibly propose a pilot bridge for testing.

**Stand. Specs 6-02.3(11)**- Geosynthtic materials in lieu of burlap for deck curing have been successfully tested on a pilot project. Charlie added that the combined burlap and plastic (Berlene) are convenient and being used.

**Action Item:** Mo will propose an addition to the Specs accepting geosynthetics in lieu of burlap.

**Stand. Specs. 6-02.3.2(B)** – Is air entrainment in concrete for curbs above ground necessary?

**Action Item:** Bob will propose a change to the Specs to clarify.

**Stand. Specs. 6-02.3(5C):** Is the concrete that does not meet this requirement rejected? Ron replied yes. John said that for remote areas it might be difficult to achieve.

**Action Item:** Mo will investigate a GSP that would allow for onsite batching.

**Stand. Specs. 6-02.3(11)-** Curtain and wingwalls require 3 days of curing. Bob asked why the retaining walls require 10 days of curing?

**Action Item:** Mo will investigate.

**Action Item:** Easier traffic barrier construction schemes (precast option) with prefabricated rebar cages presented by Dan.

### **Team Assignment**

The team members will review to discuss the Standard Specs. 6-02.3(16-17) for the June meeting. Refer to the attachment of pending discussion items and augment with new issues.

The meeting adjourned at 12:00 PM.

**Next Meeting June 13, 2003, 9:00 AM Corson Ave. Facility**